

Appl. No. 10/809,358
Amendment dated: November 25, 2005
Reply to OA of: August 25, 2005

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-15(canceled).

16(original). A method for treating wastewater containing organic compounds, comprising the steps of :

(a) feeding wastewater containing organic pollutants into an anaerobic bioreactor where the anaerobes therein decompose the organic pollutants in the wastewater;

(b) feeding effluent of anaerobic bioreactor in step (a) into an aerobic bioreactor where the aerobes therein decompose the residual organic in wastewater and carbon dioxide dissolved in water is stripped through air stripping so that the pH value of water is increased, whereby the crystals of metal carbonate, struvite and inorganic solids are produced and inserted in the floc matrix of aerobes through bioflocculation; and

(c) feeding effluent of aerobic bioreactor in step (b) into a membrane separation reaction where solids in the water are separated to obtain effluents free of organic pollutants.

17(original). The method of Claim 16, wherein said method can further comprise a step of pretreating wastewater for removing the toxic organic pollutants in waste wastewater before step (a).

18(original). The method according to Claim 16, wherein said method can further comprise a step of alkaline hydrolysis for aerobic waste sludge in an alkaline sludge hydrolysis apparatus before step (a) to promote the hydrolysis of aerobic wastewater and enhance the digestion capability of anaerobic sludge.

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19(original). The method according to Claim 16, wherein said method can further comprise a step of scouring the membrane of said membrane separation reactor with biogas.

20(original). The method according to Claim 16, wherein said method can further comprise a step of scouring the membrane of said membrane separation reactor with air and inorganic acid.

21(original). The method according to Claim 16, wherein said method can further comprise a step of scouring the membrane of said membrane separation reactor with air.

22(original). The method according to Claim 16, wherein said method can comprise a step of circulating the microbes from said aerobic bioreactor and membrane separation reactor to said anaerobic bioreactor.